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Stereoscopes.

A.D. 1866, 17th April. N° 1085.

Stereoscopes.

(*This Invention received Provisional Protection only.*)

PROVISIONAL SPECIFICATION left by Philippe William Gengembre at the Office of the Commissioners of Patents, with his Petition, on the 17th April 1866.

I, PHILIPPE WILLIAM GENGEMBRE, of the City, County, and State of New York, United States of America, now of No. 10, Gloucester Terrace, Kensington, in the County of Middlesex, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN STEREOSCOPES, WHICH IMPROVEMENTS ARE ALSO APPLICABLE TO INSTRUMENTS FOR EXHIBITING SINGLE VIEWS," to be as follows:—

The nature of the said Invention chiefly consists, first, in the mode of arrangeing stereoscopic or other views or slides around a roller; second, in the device for securing the views or slides to the said roller; third, in making the roller reversible; fourth, in the mode of adjusting the lenses of the instrument; fifth, in the manner of regulating the movement of the views or slides.

The stereoscopic box is constructed in two parts, and the bearings of the roller which carries the views or slides rest in notches formed in the sides of the lower half of the said box. Corresponding notches are formed in the sides of the upper half, so that when the box is shut the bearings of the said roller are held in the apertures formed by said notches. When the box is open, however, the said roller may be readily raised and reversed, or changed end for end. Outside the box on each end of the roller are fixed knobs by which it may be turned, and inside the box are two rings fixed to the roller, the distance between the said rings being somewhat less than the length of

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the views or slides. Around the circumference of each of these rings are elastic loops, one of which is drawn over each end of every view or slide, thus securing the said slides or views parallel to the said rollers, and thereby forming a circular revolving album. If desirable two views or slides may be placed back to back in each pair of loops, by which means the number of the views may be doubled. Both sets of views may be exhibited without changing their position in the loops, by simply turning the roller end for end. In the upper part of the stereoscopic box is a door in which are placed the lenses, and the reflector is secured upon the inside of the cover above the lenses. By opening the door more or less the distance between the lenses and the views may be changed as desired. For cartes de visite or single pictures the box may be made narrower and only one lens is used. The said roller is rotated by means of the knobs on the ends of the same, thus bringing the views in regular succession before the lenses, in which position they are retained while being exhibited by means of a small spring, one end of which is fixed to the top of the box. As each view escapes the spring it falls forward and gives place to the succeeding one. The roller is prevented from turning backward by means of a small ratchet wheel or other suitable device.

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